SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Perkin-Elmer Corporation, Applied Biosystems Division

(ii) TITLE OF INVENTION: METHOD FOR DETECTING OLIGONUCLEOTIDES USING ENERGY TRANSFER DYES WITH LONG STOKE SHIFT

(iii) NUMBER OF SEQUENCES: 3

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: David J. Weitz, Wilson Sonsini Goodrich & Rosati

(B) STREET: 650 Page Mill Road

(C) CITY: Palo Alto

(D) STATE: California

(E) COUNTRY: USA

(F) ZIP: 94304-1050

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5 inch diskette

(B) COMPUTER: IBM compatible

(C) OPERATING SYSTEM: Microsoft Windows 3.1/DOS 5.0

(D) SOFTWARE: Wordperfect for windows 6.0, ASCII (DOS) TEXT format

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:

(B) FILING DATE:

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/642,330

(B) FILING DATE: May 3, 1996

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/672,196

(B) FILING DATE: June 27, 1996

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/726,462

(B) FILING DATE: October 4, 1996

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 09/046,203

(B) FILING DATE: March 23, 1998

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: David J. Weitz

(B) REGISTRATION NUMBER: 38,362

(C) REFERENCE/DOCKET NUMBER: 16842-755

(ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: (415) 493-9300
(B) TELEFAX: (415) 493-6811

(2) INFORMATION FOR SEQ ID NO: 1:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 1217 nucleotides
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

```
GCCAAGCTTG  CATGCCTGCA  GGTCGACTCT  AGAGGATCCC     40
CGGGTACCGA  GCTCGAATTC  GTAATCATGG  TCATAGCTGT     80
TTCCTGTGTG  AAATTGTTAT  CCGCTCACAA  TTCCACACAA    120
CATACGAGCC  GGAAGCATAA  AGTGTAAAGC  CTGGGGTGCC    160
TAATGAGTGA  GCTAACTCAC  ATTAATTGCG  TTGCGCTCAC    200
TGCCCGCTTT  CCAGTCGGGA  AACCTGTCGT  GCCAGCTGCA    240
TTAATGAATC  GGCCAACGCG  CGGGGAGAGG  CGGTTTGCGT    280
ATTGGGCGCC  AGGGTGGTTT  TTCTTTTCAC  CAGTGAGACG    320
GGCAACAGCT  GATTGCCCTT  CACCGCCTGG  CCCTGAGAGA    360
GTTGCAGCAA  GCGGTCCACG  CTGGTTTGCC  CCAGCAGGCG    400
AAAATCCTGT  TTGATGGTGG  TTCCGAAATC  GGCAAAATCC    440
CTTATAAATC  AAAAGAATAG  CCCGAGATAG  GGTTGAGTGT    480
TGTTCCAGTT  TGGAACAAGA  GTCCACTATT  AAAGAACGTG    520
GACTCCAACG  TCAAAGGGCG  AAAAACCGTC  TATCAGGGCG    560
ATGGCCCACT  ACGTGAACCA  TCACCCAAAT  CAAGTTTTTT    600
GGGGTCGAGG  TGCCGTAAAG  CACTAAATCG  GAACCCTAAA    640
GGGAGCCCCC  GATTTAGAGC  TTGACGGGGA  AAGCCGGCGA    680
ACGTGGCGAG  AAAGGAAGGG  AAGAAAGCGA  AAGGAGCGGG    720
CGCTAGGGCG  CTGGCAAGTG  TAGCGGTCAC  GCTGCGCGTA    760
ACCACCACAC  CCGCCGCGCT  TAATGCGCCG  CTACAGGGCG    800
CGTACTATGG  TTGCTTTGAC  GAGCACGTAT  AACGTGCTTT    840
CCTCGTTGGA  ATCAGAGCGG  GAGCTAAACA  GGAGGCCGAT    880
TAAAGGGATT  TTAGACAGGA  ACGGTACGCC  AGAATCTTGA    920
GAAGTGTTTT  TATAATCAGT  GAGGCCACCG  AGTAAAAGAG    960
TCTGTCCATC  ACGCAAATTA  ACCGTTGTAG  CAATACTTCT   1000
TTGATTAGTA  ATAACATCAC  TTGCCTGAGT  AGAAGAACTC   1040
AAACTATCGG  CCTTGCTGGT  AATATCCAGA  ACAATATTAC   1080
CGCCAGCCAT  TGCAACAGGA  AAAACGCTCA  TGGAAATACC   1120
TACATTTTGA  CGCTCAATCG  TCTGAAATGG  ATTATTTACA   1160
TTGGCAGATT  CACCAGTCAC  ACGACCAGTA  ATAAAAGGGA   1200
CATTCTGGCC  AACAGAG                            1217
```

(2) INFORMATION FOR SEQ ID NO: 2:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 18 nucleotides
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

TGTAAAACGA CGGCCAGT 18

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 738 nucleotides

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

ATACGACTCA	CTATAGGGCG	AATTCGAGCT	CGGTACCCGG	40
GGATCCTCTA	GAGTCGACCT	GCAGGCATGC	AAGCTTGAGT	80
ATTCTATAGT	GTCACCTAAA	TAGCTTGGCG	TAATCATGGT	120
CATAGCTGTT	TCCTGTGTGA	AATTGTTATC	CGCTCACAAT	160
TCCACACAAC	ATACGAGCCG	GAAGCATAAA	GTGTAAAGCC	200
TGGGGTGCCT	AATGAGTGAG	CTAACTCACA	TTAATTGCGT	240
TGCGCTCACT	GCCCGCTTTC	CAGTCGGGAA	ACCTGTCGTG	280
CCAGCTGCAT	TAATGAATCG	GCCAACGCGC	GGGGAGAGGC	320
GGTTTGCGTA	TTGGGCGCTC	TTCCGCTTCC	TCGCTCACTG	360
ACTCGCTGCG	CTCGGTCGTT	CGGCTGCGGC	GAGCGGTATC	400
AGCTCACTCA	AAGGCGGTAA	TACGGTTATC	CACAGAATCA	440
GGGGATAACG	CAGGAAAGAA	CATGTGAGCA	AAAGGCCAGC	480
AAAAGGCCAG	GAACCGTAAA	AAGGCCGCGT	TGCTGGCGTT	520
TTTCCATAGG	CTCCGCCCCC	CTGACGAGCA	TCACAAAAAT	560
CGACGCTCAA	GTCAGAGGTG	GCGAAACCCG	ACAGGACTAT	600
AAAGATACCA	GGCGTTTCCC	CCTGGAAGCT	CCCTCGTGCG	640
CTCTCCTGTT	CCGACCCTGC	CGCTTACCGG	ATACCTGTCC	680
GCCTTTCTCC	CTTCGGGAAG	CGTGGCGCTT	TCTCATAGCT	720
CACGCTGTAG	GTATCTCA			738